

## Outdoor Remote Power Systems

### Features

- Complete Remote Power Solution for Off-Grid Operation
- Weatherproof Outdoor Enclosure with up to 200Ah Battery
- Enclosures can be Wall or Pole Mounted
- High Performance Sealed Lead Acid Batteries
- PWM Charge Controllers
- Thermostatically Controlled Ventilation



### Applications

- Wireless Base Stations
- Surveillance Cameras
- Wireless Bridge and Repeaters
- Off Grid Power
- Remote Lighting
- Backup Power Systems

### Description

The RPST RemotePro™ series outdoor power systems are designed for applications that require a primary off-grid power source to run various equipment. The vented weatherproof enclosures have generous space available inside for mounting customer equipment. Multiple DIN Rail mount features are provided.

All enclosures are hinged and gasket sealed with tamper resistant locks for security. The enclosures can be mounted to a wall or pole with the included mounting bracket system.

The high quality solar panels have a 25year power output guarantee. The panel come with a side of pole mounting bracket for mounting to a pole or wall.

There are 12V and 24V battery configurations with 24V and 48V PoE outputs up to 30W. There are also systems which feature a 20A output unregulated solar controller for higher output power. Enclosures have four cable gland ports for CAT5/6 cable, antenna cables/connectors or other cabling. The enclosures include a thermostatically controlled fan assembly which turns on automatically when the temperature exceeds 45°C.

Batteries are a Non-Spillable Valve Regulated Sealed Lead Acid Advance Glass Matt (AGM) type which have excellent temperature and deep discharge performance. Expected battery life exceeds 5years.

The systems come with all cabling required to connect the batteries to the controller and 20' outdoor rated cable to connect the solar panels to the controller.



RPST with 100Ah of battery



RPST with 200Ah of battery



80W Solar Mount



160W / 320W Solar Mount

## Specifications

	RPST12xx-100-80	RPST12-200-160	RPST12xx-200-160	RPST24-100-160	RPST24xx-100-160	RPST12-200-320	RPST24-100-320	RPST24xx-100-320
<b>Rated Power Generation</b>	20W	40W	40W	40W	40W	50W	50W	50W
<b>Reserve Time @ Rated Power</b>	30hrs	30hrs	30hrs	30hrs	30hrs	24hrs	24hrs	24hrs
<b>PoE Output Voltage (DC) 30W</b>	24V or 48V	No PoE	24V or 48V	No PoE	24V or 48V	No PoE	No PoE	24V or 48V
<b>Load Out (DC)</b>	11V-15V 1.5A	11V-15V 20A	11V-15V 1.5A	22V-29V 20A	24V 1.5A Regulated	11V-15V 20A	22V-29V 20A	24V 1.5A Regulated
<b>12V Battery Capacity (Amp Hrs)</b>	100Ah	200Ah	200Ah	200Ah	200Ah	200Ah	200Ah	200Ah
<b>Battery Voltage (DC)</b>	12V	12V	12V	24V	24V	12V	24V	24V
<b>Battery Type</b>	Maintenance Free Non-Spillable Valve Regulated Sealed Lead Acid AGM							
<b>Battery Life</b>	5+years							
<b>Solar Controller Type</b>	PWM (Pulse Width Modulated)							
<b>Overcharge Protection</b>	14.4V	14.4V	14.4V	28.6V	28.6V	14.4V	28.6V	28.6V
<b>Over-discharge protection</b>	11.0V	11.0V	11.0V	22V	22V	11.0V	22V	22V
<b>Over-discharge recovery volts</b>	12.0V	12.0V	12.0V	24.8V	24.8V	12.0V	24.8V	24.8V
<b>Controller Self Consumption</b>	<0.5W							
<b>Enclosure Type</b>	Pole/Wall Mount, Powder Coat Steel							
<b>Enclosure External Size</b>	24 x 15 x 14" (610 x 381 x 356mm)							
<b>Enclosure Internal Size</b>	23 x 14 x 12" (584 x 356 x 305mm)							
<b>Internal Mount Features</b>	Din Rail Mounts (3)							
<b>Solar Panel Dims</b>	34" x 26" (855x666mm)	67" x 26" (1710 x 666mm)				67" x 52.4" (1710 x 1332mm)		
<b>Operating Temperature</b>	-30°C to +60°C (-22°F to 140°F)							
<b>System Weight (no batteries)</b>	86lb (39kg)	109lb (49kg)				136lb (62kg)		
<b>Battery Weight</b>	81 lb (37kg)	161 lb (73kg)						
<b>Wind Speed Rating</b>	90MPH							
<b>Warranty</b>	2 Years							

### RPST 12xx-200-320

Enclosure Type  
ST - Powder Coat Steel

Battery Voltage  
12 - 12V  
24 - 24V  
xx = PoE Voltage  
(24 or 48)

Storage Capacity  
50 - 50Ah @ Rated Volts  
100 - 100Ah @ Rated Volts  
200 - 200Ah @ Rated Volts

Solar Panel Output  
80 - 80 Watt  
160 - 160 Watt  
320 - 320 Watt

**System Ordering:**

Model #	Continuous Power Generation (6hrs peak sun)	Backup Time	Battery Voltage	PoE Output Voltage	12V Battery Capacity	Solar Panel Size
RPST1224-100-80	20W	>30hrs	12VDC	24V	100Ah	80W
RPST1248-100-80	20W	>30hrs	12VDC	48V	100Ah	80W
RPST12-200-160	40W	>30hrs	12VDC	---	200Ah	160W
RPST1224-200-160	40W	>30hrs	12VDC	24V	200Ah	160W
RPST1248-200-160	40W	>30hrs	12VDC	48V	200Ah	160W
RPST24-100-160	40W	>30hrs	24VDC	---	200Ah	160W
RPST2424-100-160	40W	>30hrs	24VDC	24V	200Ah	160W
RPST2448-100-160	40W	>30hrs	24VDC	48V	200Ah	160W
RPST12-200-320	50W	>24hrs	12VDC	---	200Ah	320W
RPST24-100-320	50W	>24hrs	24VDC	---	200Ah	320W
RPST2424-100-320	50W	>24hrs	24VDC	24V	200Ah	320W
RPST2448-100-320	50W	>24hrs	24VDC	48V	200Ah	320W

**Must Have Accessories:****Tycon BreezePro® 400W Wind Turbine**

(pn TPW-400DT-12/24)

- Generates power on stormy days when there is limited sun.
- Auto ranging 12VDC or 24VDC
- Integrated controller and dump load

**Tycon Remote Monitoring and Control**

(pn TPDIN-Monitor-WEB2)

- Remotely monitor battery levels and overall system performance. Measure 4 voltages, 4 currents and 2 temperatures.
- Turn various equipment off or on remotely
- HTTP WEB interface, SNMP
- DIN Rail mounting, PoE or wire terminal powered

**For further information contact:**[Tyconsystems.com](http://Tyconsystems.com)

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